

In The Best Mode(s) For Carrying Out The Invention:

Please amend page Page 6, Paragraph [0015] as follows:

[0015] (Currently Amended) Finally, the VRML library database 16 is partially comprised of package type images that are typically drawn using CAD-based software. Package type images visually describe specific component attributes. For example, a package type image for an HC1202 chip may show the physical arrangement of the chip's eight pins and briefly indicate the functions each specific pin provides, i.e. pin 5 is the logical AND output of input pin 1 and input pin 2. The VRML library database 16 may also contain fiducial information. Fiducial information or fiducial marks include printed artwork features that are created in the same process as circuit artwork. Fiducial marks provide common measurable points for all steps in the assembly process. The fiducial information is included in the database 16 to provide a PCB assembler with 2D coordinate location information for components to be assembled on the PCB, such as a common point to serve as a reference designator by which other components are assembled. A reference designator is, for example, much like the coordinate (0,0), which typically serves as the origin for a grid and other 2D coordinate location information points, such as (3,4), which can be located once this origin is established. In addition, this database 16 can contain the coordinates of every component's location and rotation on the PCB. Each component's rotation information may include the coordinate references for a location on a plane and each component's size, shape, and relation to other components, such that a maximum number of components may fit in a designated area as a function of coordinating the components and their respective rotation information.